## **CLAIMS LISTING**

- 1. A method for reducing biological oxygen demand in an aqueous waste stream from a source selected from the group consisting of food processing, municipal waste treatment, fermentation and chemical plants, wherein said waste stream contains from about 0.02% to about 3.0% magnesium chloride (weight percent) or an equivalent molar amount of divalent magnesium cation, said method comprising the step of aerating the waste stream for a time up to, of about one to about seven days.
- 2. Cancel.
- 3. The method of claim 1 or 2, wherein flocculated material is removed prior to the step of aeration.
- 4. The method of any of claims 1 to 3, wherein the waste stream contains from about 0.02% to about 0.5% MgCl<sub>2</sub> (weight/volume) or an equivalent amount of divalent magnesium cation.
- 5. The method of any of claims 1 to 4, wherein the step of aerating maintains a dissolved oxygen level from about 1 to about 8 ppm oxygen.
- 6. The method of claim any of claims 1 to 5, wherein the waste stream is from an animal meat processing facility, from a plant food processing facility, from a fermentation facility or from an organic chemical facility.
- 7. The method of claim 6, wherein the waste stream is from an animal meat processing facility and wherein a magnesium chloride-dissolved air flotation process has been employed to remove flocculated material, prior to the step of aerating, from the waste stream.

- 8. The method of any of claims 1 to 7, wherein the step of aerating results in foam formation and wherein the method further comprises the step of foam removal from the waste water.
- 9. The method of any of claims 1 to 8, wherein the step of aerating is carried out using a Venturi system.
- 10. (New) The method of claim 1 wherein, sodium hypochlorite or hydrogen peroxide are not added to said waste stream.